A GOLF CLUB SHAFT FORMED FROM METAL-CONTAINING PREPREG AND NON-METAL FIBER PREPREG AND METHOD OF MAKING THE SAME

ABSTRACT OF THE DISCLOSURE

Disclosed is a golf club shaft of sheet-wound construction that approximates the characteristics of a steel shaft. The golf club shaft is formed using metal-containing prepreg and non-metal fiber prepreg in order to provide a sheet-wound club having an elasticity index (EI) value of $3.0 \sim 4.5\ kgf \circ m^2$, a mass 80~130g, and a center of mass that is 45~51% of the overall length of the shaft. The metal-containing prepreg is wrapped around a mandrel near the tip of the shaft in order to position the center of mass where desired. The non-metal fiber prepreg is wrapped around the mandrel to provide the desired EI value and overlal mass. Additional layers of metal-containing prepreg may be wrapped beyond the metal-containing prepreg wrapped near the tip in order to vary the characteristics of the golf club shaft. The golf club shaft is preferably formed on a mandrel that includes an annular recess at its tip in order to accommodate the metal-containing prepreg that is wrapped near the tip.